

CLAIMS

1. A quantitative distributor comprising a cylinder, a piston positioned in the cylinder, an elastic body pressurizing the piston, the piston being moved by a pressure of a substance intermittently applied to the distributor against a force of the elastic body, a predetermined volume of the substance to be discharged from the distributor being determined by a distance of movement of the piston in the cylinder, wherein

10 a discharge volume of the substance from the distributor corresponds to the pressure of the substance supplied to the distributor.

2. A quantitative distributor as set forth in claim 1, wherein the elastic body pressurizing the piston has a Young's modulus which is variable by a position of the piston.

3. A quantitative distributor as set forth in claim 2, wherein the elastic body comprises a plurality of elastic elements arranged in series, each of which has a different Young's modulus from each other.

20 4. A quantitative distributor as set forth in claim 2, wherein the elastic body comprises a plurality of elastic elements arranged in parallel such that start points of compression of the elastic elements are different from each other due to the position of the piston.

30 5. A quantitative distributor comprising a cylinder, a piston positioned in the cylinder, an elastic body pressurizing the piston, the piston being moved by a pressure of a substance intermittently applied to the distributor against a force of the elastic body, a predetermined volume of the substance to be discharged from the distributor being determined by a distance of movement of the piston in the cylinder, wherein

35 an inflow side and a discharge side of the cylinder chamber separated from each other by the piston are communicated each other by movement of the piston

over a distance more than a distance of movement of a normal operation, such that a conduit for supplying the substance to the distributor and a delivery port of the distributor are communicated each other.

5       6. A quantitative distributor as set forth in claim 1, wherein an inflow side and a discharge side of the cylinder chamber separated from each other by the piston are communicated each other by movement of the piston over a distance more than a distance of movement 10 of a normal operation, such that a conduit for supplying the substance to the distributor and a delivery port of the distributor are communicated each other.

15      7. A quantitative distributor as set forth in claim 5, wherein the inflow side and the discharge side of the cylinder chamber separated from each other by the piston are communicated each other by expanding an inner diameter of the cylinder at the point in which the piston is moved over a distance more than the distance of movement of the normal operation.